pMG36e

Vector ID	V012803
Antibiotic Resistance	Erythromycin
Length	3600 bp
Vector Type	Lactococcus lactis expression plasmid

Product Information

Replication Origin	pWV01
Copy Number	High copy number
Promoter	P32
Cloning Method	Enzyme Cut
Growth Strain(s)	MC1061
Growth Temperature	30℃
Comment	pMG36e plasmid (pWV01 ori) is based on protease gene transcription and translation signals from Lactococcus lactis cremoris, is a typical artificial constitutive expression vector as a main expression system in Lactococcus.It contains a strong promoter and can express foreign proteins in a variety of bacteria. It has been used to study the action mechanism of bacteriocin, the transformation of lactic acid bacteria genetic engineering strains and the development of oral vaccines. It has been widely used in many fields and has become one of the important tools for lactic acid bacteria genetic engineering research.Please note:1.The competent cell should be MC1061. MC1061/P3 Chemically Competent E. coli are used for highly efficient transformations that require the P3 episome for selection and maintenance of vectors encoding the tyrosine tRNA suppressor (synthetic supF gene, such as pCDM8, pcDNA1.1, or any other supF-containing vector). TOP10 is not a MC1061 derivative; 2. The Erythromycin selection should be 200 ug/mL. Erythromycin is very tricky, and 40-50ug/mL will not suppress non-target bacteria. 3. The culture temperature should be 30℃.

Vector Map



Plasmid Resuspension Protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.